

AZ769

25 AMP MINIATURE POWER RELAY

FEATURES

- Low cost
- 25 Amp switching
- 80 Amp inrush current
- Quick connect and PCB terminals
- Flux tight construction
- UL, CUR file E44211
- TÜV file R50069399



CONTACTS

| | |
|-------------------------------|--|
| Arrangement | SPST (1 Form A) |
| Ratings | Resistive load: Max. switched power: 600 W or 6925 VA Max. switched current: 25 A Max. switched voltage: 150 VDC* or 400 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory. |
| Rated Load UL, CUR | 25 A at 277 VAC resistive 100k cycles [1] [2] 1 HP at 120 VAC, 100k cycles [1] [2] 2 HP at 240 VAC, 100k cycles [2] 2 HP at 240 VAC, 30k cycles [1] |
| TÜV | 25 A at 250 VAC resistive [1] |
| Material | Silver cadmium oxide [1] or silver tin oxide [2] |
| Resistance | < 50 milliohms initially (24 V, 1 A voltage drop method) |

COIL

| | |
|--|-------------------------------------|
| Power At Pickup Voltage (typical) | 441 mW |
| Max. Continuous Dissipation | 2.25 W at 20°C (68°F) ambient |
| Temperature Rise | 45°C (81°F) at nominal coil voltage |
| Temperature | Max. 130°C (266°F) |

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.

GENERAL DATA

| | |
|--|---|
| Life Expectancy Mechanical Electrical | Minimum operations 2 x 10 ⁶ 1 x 10 ⁵ at 25 A 250 VAC Res. |
| Operate Time (typical) | 20 ms at nominal coil voltage |
| Release Time (typical) | 10 ms at nominal coil voltage (with no coil suppression) |
| Dielectric Strength (at sea level for 1 min.) | 4500 Vrms coil to contact 1500 Vrms between open contacts 10,000 V surge contact to coil |
| Insulation Resistance | 1000 megohms min. at 20°C, 500 VDC, 50% RH |
| Dropout | Greater than 10% of nominal coil voltage |
| Ambient Temperature Operating Storage | At nominal coil voltage -40°C (-40°F) to 70°C (158°F) -40°C (-40°F) to 105°C (221°F) |
| Vibration | 0.062" (1.5 mm) DA at 10–55 Hz |
| Shock Operating Non-Operating | 20 g, 11 ms, 1/2 sine (no false operation) 100 g, 11 ms, 1/2 sine (no damage) |
| Enclosure | P.B.T. polyester |
| Terminals | Tinned copper alloy P.C. & quick connect Note: Allow suitable slack on leads when wiring and do not subject the terminals to excessive force. |
| Max. Solder Temp. | 270°C (518°F) |
| Max. Solder Time | 5 seconds |
| Weight | 23 grams |
| Packing unit in pcs | 50 per plastic tray / 500 per carton box |

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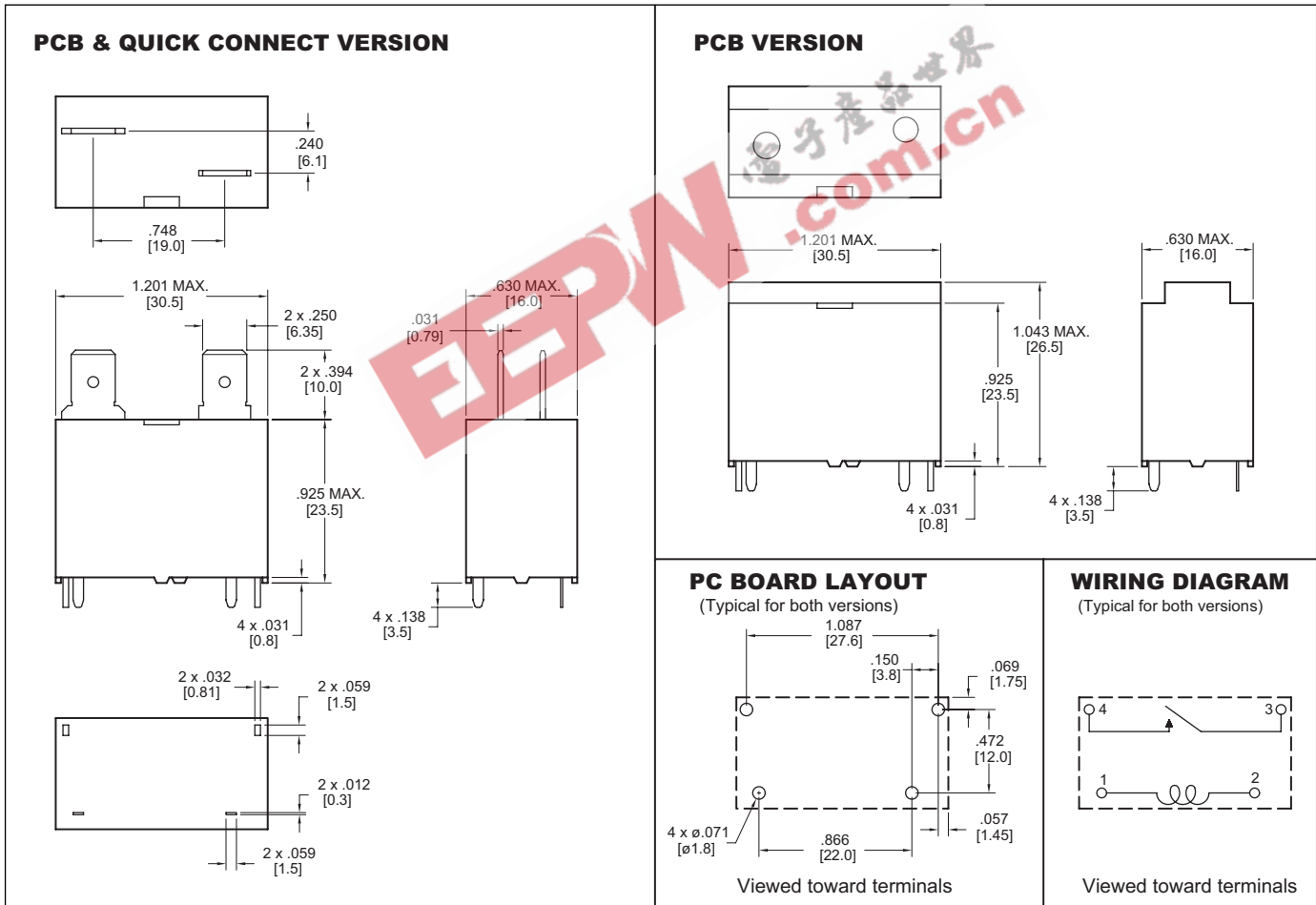
RELAY ORDERING DATA

| COIL SPECIFICATIONS - QUICK CONNECT TERMINALS | | | | ORDER NUMBER* |
|---|------------------|---------------------|--------------------------------|---------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohm $\pm 10\%$ | Form A (SPST) |
| 5 | 3.5 | 7.9 | 27.8 | AZ769-1A-5D |
| 12 | 8.4 | 19.0 | 160 | AZ769-1A-12D |
| 24 | 16.8 | 37.9 | 640 | AZ769-1A-24D |

| COIL SPECIFICATIONS - PCB TERMINALS | | | | ORDER NUMBER* |
|-------------------------------------|------------------|---------------------|--------------------------------|---------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohm $\pm 10\%$ | Form A (SPST) |
| 5 | 3.5 | 7.9 | 27.8 | AZ769-1A-5DK |
| 12 | 8.4 | 19.0 | 160 | AZ769-1A-12DK |
| 24 | 16.8 | 37.9 | 640 | AZ769-1A-24DK |

* Add suffix "E" to "1A" for silver tin oxide contacts.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

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